

SECURITY ARCHITECTURE FOR
SYSTEM ON CHIP

ABSTRACT

The present invention provides for authenticating code
5 and/or data and providing a protected environment for
execution. The present invention provides for dynamically
partitioning and un-partitioning a local store for the
authentication of code or data. The local store is
partitioned into an isolated and non-isolated section. Code
10 or data is loaded into the isolated section. The code or
data is authenticated in the isolated section of the local
store. After authentication, the code is executed. After
execution, the memory within the isolated region of the
attached processor unit is erased, and the attached
15 processor unit de-partitions the isolated section within the
local store.